AMENDMENTS TO THE CLAIMS

1.-3. (Canceled)

- 4. (Currently amended) A polyarginine containing crystal of human growth hormone (hGH), comprising polyarginine complexed with said crystal of and hGH, wherein said hGH is selected from the group consisting of:
 - (a) the 191 amino acid sequence of native hGH; and
- (b) the 192 amino acid sequence of said 191 amino acid sequence of native hGH additionally containing an N-terminal methionine; and wherein the hGH:polyarginine ratio is 12:1 to 3:1 (w/w).

5.-6. (Canceled)

- 7. (Currently amended) A polyarginine containing crystal of human growth hormone (hGH), comprising polyarginine complexed with said crystal of and hGH, wherein said hGH is selected from the group consisting of:
 - (a) the 191 amino acid sequence of native hGH; and
- (b) the 192 amino acid sequence of said 191 amino acid sequence of native hGH additionally containing an N-terminal methionine;

wherein the hGH:polyarginine ratio is 12:1 to 3:1 (w/w); and

wherein the crystal is characterized by a release profile such that a single administration of said crystal to a mammal provides an *in vivo* human growth hormone (hGH) serum concentration profile in said mammal having a $\mp^{90\%}$ - $\pm_{90\%}$ value higher than that provided by a single administration of the same amount of soluble human growth hormone.

- 8. (Currently amended) A-polyarginine containing crystal of human growth hormone (hGH), comprising polyarginine complexed with said crystal of and hGH, wherein said hGH is selected from the group consisting of:
 - (a) the 191 amino acid sequence of native hGH; and

(b) the 192 amino acid sequence of said 191 amino acid sequence of native hGH additionally containing an N-terminal methionine;

wherein the hGH:polyarginine ratio is 12:1 to 3:1 (w/w); and

wherein the crystal is characterized by an insulin growth factor-1 (IGF-1) serum elevation profile such that a single administration of said crystal to a mammal provides an *in vivo* IGF-1 serum elevation over baseline IGF-1 level in said mammal at similar levels compared to those provided by the same amount of soluble human growth hormone (hGH) administered in more than one administration.

- 9. (Currently amended) A polyarginine containing crystal of human growth hormone (hGH), comprising polyarginine complexed with said crystal of and hGH, wherein said hGH is selected from the group consisting of:
 - (a) the 191 amino acid sequence of native hGH; and
- (b) the 192 amino acid sequence of said 191 amino acid sequence of native hGH additionally containing an N-terminal methionine;

wherein the hGH:polyarginine ratio is 12:1 to 3:1 (w/w); and

wherein the crystal is characterized by a bioavailability such that a single administration of said crystal has a relative bioavailability of at least 50% or more, as compared to that of an identical dose <u>or lower dose</u> of soluble human growth hormone (hGH) delivered via the same administrative route, wherein said bioavailability is measured by area under curve (AUC) of total *in vivo* hGH serum concentration for said soluble hGH and said hGH crystal.

- 10. (Previously presented) The crystal according to claim 7 or 8, wherein said mammal is a human.
- 11.-16. (Canceled)
- 17. (Currently amended) [[A]] <u>The composition comprising the crystal according to claim 4, 7, 8, or 9, and further comprising an additional excipient.</u>

18. (Canceled)

- 19. (Currently amended) The composition according to claim 17, wherein said <u>additional</u> excipient is selected from the group consisting of amino acid[[s]], <u>a salt[[s]]</u>, <u>an alcohol[[s]]</u>, <u>a</u> carbohydrate[[s]], <u>a protein[[s]]</u>, <u>a lipid[[s]]</u>, <u>a surfactant[[s]]</u>, <u>a polymer[[s]]</u>, <u>a polymer[[s]]</u>, a polymer[[s]] and mixtures thereof.
- 20. (Currently amended) The composition according to claim 17, wherein said <u>additional</u> excipient is selected from the group consisting of[[:]] protamine, polyvinylalcohol, cyclodextrin[[s]], dextran[[s]], calcium gluconate, polyamino acid[[s], polyethylene glycol, <u>a</u> dendrimer[[s]], polyorthinine, polyethyleneimine, chitosan and mixtures thereof.
- 21. (Currently amended) The composition according to claim 20, wherein said <u>additional</u> excipient is selected from the group consisting of: protamine, polyarginine, polyethylene glycol and mixtures thereof.
- 22. (Previously presented) The composition according to claim 17, wherein the concentration of human growth hormone (hGH) in said composition is between 0.1 and 100 mg/ml.
- 23.-62. (Canceled)
- 63. (Currently amended) The polyarginine <u>complexed containing human growth hormone</u> (hGH) crystal according to claim 4, 7, 8 or 9, wherein the <u>complexed crystal</u> is produced by:
 - (a) crystallizing the hGH human growth hormone, and
 - (b) complexing polyarginine to the crystallized <u>hGH</u> human growth hormone.
- 64. (Currently amended) The polyarginine <u>complexed</u>-containing hGH crystal according to claim 4, further comprising a cation.
- 65. (Currently amended) A pharmaceutical composition comprising the polyarginine complexed containing hGH crystal of human growth hormone of claim 4.

- 66. (Currently amended) A pharmaceutical composition comprising the polyarginine complexed containing hGH crystal of human growth hormone of claim 7.
- 67. (Currently amended) A pharmaceutical composition comprising the polyarginine complexed containing hGH crystal of human growth hormone of claim 8.
- 68. (Currently amended) A pharmaceutical composition comprising the polyarginine complexed-containing hGH crystal of human growth hormone of claim 9.
- 69.-71. (Canceled)
- 72. (Currently amended) A pharmaceutical composition comprising the polyarginine complexed containing hGH crystal of human growth hormone of claim 63.
- 73. (Currently amended) A pharmaceutical composition comprising the polyarginine <u>complexed-containing hGH</u> crystal of human growth hormone of claim 64.
- 74. (Currently amended) The polyarginine <u>complexed</u> <u>containing-hGH</u> crystal according to claim 7, further comprising a cation.
- 75. (Currently amended) The polyarginine <u>complexed</u> eontaining <u>hGH</u> crystal according to claim 8, further comprising a cation.
- 76. (Currently amended) The polyarginine <u>complexed</u> <u>containing hGH</u> crystal according to claim 9, further comprising a cation.
- 77.-79. (Canceled)
- 80. (Currently amended) The polyarginine <u>complexed</u> <u>containing hGH</u> crystal according to claim 63, further comprising a cation.
- 81.-84. (Canceled)